



Australian Bureau of Statistics

CensusAtSchool Australia

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Resources



CaSQ 21 - Mean, Median and Mode of hours slept per night

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) and get a sample.

Reference year: (Select year) **Sample size:** 100 students

Select questions: Hours slept per night

Location: Select location **Year level:** (Select a range of year levels)

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

Task:

1. In your CensusAtSchool random sample, find the question about hours slept/night, and write the first ten values below.

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2. Showing your working, calculate the mean, median and mode for the above data set.

Mean: _____ Median: _____ Mode: _____

3. You are told that the mean hours slept/night of a sample is 9 hours, a median is 9 hours and a mode of 9 hours. Create a realistic sample of 10 subjects that will give a mean, median and mode of 9 hours slept per night. You cannot have more than two numbers that are identical.

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4. Get your neighbour to check your data: *"This data sample of ten has a mean of 9 hours, a mode of 9 hours and a median of 9 hours."* signed: _____

Extension:

5. Explain in words how you went about creating a sample of ten numbers that had a mean of 9 hours, a mode of 9 hours and a median of 9 hours.

Download the full activity: [RTF](#)

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